

7 an ejection element provided to each one of the plurality of nozzles for ejecting an
8 ink droplet from the corresponding nozzle onto the recording medium in response to the
9 driving data while the feed unit is feeding the recording medium in the first direction;
10 a memory that stores nozzle profile data including waveform data and timing data
11 for each of the plurality of nozzles, the waveform data and the timing data indicating a
12 waveform and a generating timing, respectively, of the driving pulse for each one of the
13 plurality of nozzles, wherein the converting unit converts the recording data into the
14 driving data based on the nozzle profile data, and each of the driving pulses is defined by
15 a plurality of data sets of the driving data; and
16 an updating unit that updates the waveform data for each of the plurality of
17 nozzles when a printing condition has been changed.

1 Claim 3 (Twice Amended). An ink jet recording device comprising:
2 a head formed with a plurality of nozzles;
3 a converting unit that converts recording data into driving data, the driving data
4 including data sets defining driving pulses for corresponding ones of the plurality of
5 nozzles;
6 a feed unit that feeds a recording medium in a first direction;
7 an ejection element provided to each one of the plurality of nozzles for ejecting an
8 ink droplet from the corresponding nozzle onto the recording medium in response to the
9 driving data while the feed unit is feeding the recording medium in the first direction;
10 a memory that stores nozzle profile data including waveform data and timing data
11 for each of the plurality of nozzles, the waveform data [an] and the timing data indicating a
12 waveform and a generating timing, respectively, of the driving pulse for each one of the
13 plurality of nozzles, wherein the converting unit converts the recording data into the
14 driving data based on the nozzle profile data, and each of the driving pulses is defined by
15 a plurality of data sets of the driving data;
16 a designating unit that designates a target ink amount of the ink droplet and a
17 target impact position on the recording medium on which the ink droplet impacts;

18 a measuring unit that measures a distance between the target impact position and
19 an actual impact position on the recording medium where the ink droplet has impacted
20 with respect to the first direction; and
21 an updating unit that updates the nozzle profile data based on the target impact
22 position and the distance measured by the measuring unit.

1 Claim 12 (Twice Amended). An ink jet recording device comprising:
2 a head formed with a plurality of nozzles;
3 a converting unit that converts recording data into driving data, the driving data
4 including data sets defining driving pulses for corresponding ones of the plurality of
5 nozzles;
6 a feed unit that feeds a recording medium in a first direction;
7 an ejection element provided to each one of the plurality of nozzles for ejecting an
8 ink droplet from the corresponding nozzle onto the recording medium in response to the
9 driving data while the feed unit is feeding the recording medium in the first direction;
10 a memory that stores nozzle profile data including waveform data and timing [dat]
11 data for each of the plurality of nozzles, the waveform data and the timing data indicating
12 a waveform and a generating timing, respectively, of the driving pulse for each one of the
13 plurality of nozzles, wherein the converting unit converts the recording data into the
14 driving data based on the nozzle profile data, and each of the driving pulses is defined by
15 a plurality of data sets of the driving data; and
16 a leveling unit that levels generating timings of the driving pulses by changing the
17 timing data of the nozzle profile data.

1 Claim 13 (Twice Amended). An ink jet recording device comprising:
2 a head formed with a plurality of nozzles;
3 a converting unit that converts recording data into driving data, the driving data
4 including data sets defining driving pulses for corresponding ones of the plurality of
5 nozzles;

6 a feed unit that feeds a recording medium in a first direction;
7 an ejection element provided to each one of the plurality of nozzles for ejecting an
8 ink droplet from the corresponding nozzle onto the recording medium in response to the
9 driving data while the feed unit is feeding [th] the recording medium in the first direction;
10 a memory that stores nozzle profile [dat] data including waveform data and timing
11 data for each of the plurality [on] of nozzles, the waveform data and the timing data
12 indicating a waveform and a generating timing, respectively, of the driving pulse for each
13 one of the plurality of nozzles, wherein the converting unit converts the recording data
14 into the driving data based on the nozzle profile data, and each of the driving pulses is
15 defined by a plurality of data sets of the driving data; and
16 a resolution changing unit that changes a time resolution, wherein each one of the
17 plurality of data sets of driving data having an original time resolution, and the resolution
18 setting unit that sets the original time resolution of each of the data sets to a
19 predetermined time resolution.

REMARKS

This amendment corrects the minor typographical errors in the specification.
Claims 2-14 are currently pending in the application. By this amendment, claims 2-3 and 12-131 are amended to correct minor typographical errors. No new matter is added. Reconsideration of the rejected claims in view of the above amendments and the following remarks is respectfully requested.

By this amendment minor typographical errors in claims, filed in response to the Office Action of August 14, 200, have been corrected. More specifically, in claim 2, line 11 “timing for” has been substituted with “timing data for”, in claim 3, line 12 “an” has been changed to “and”, in claim 12, line 10 “dat” has been substituted with “data” and in claim 13, lines 10, 11, 12 “th”, “dat”, “on” has been changed to “the”, “data” and “of” accordingly.

In view of the foregoing amendments and remarks, Applicant submits that all of the